

Abstract

In the present invention, a PHY signal control device and a method are provided in LAN to selectively generate a specific warning data to a MAC device. When the external transmission configuration changes, the PHY signal control device and the MAC device operate under the same transmission configuration, thus avoiding possible error during transmission. The PHY signal control device mainly includes a first device and a second device, and the first device connects the PHY apparatus and the MAC device, and enables data transmission between them. The second device controls the first device to selectively transfer the general data from LAN or the warning data generated by the first device to the MAC device. Thus, when the external transmission configuration changes, the PHY apparatus soon becomes alert and adjusts to the current transmission configuration. Then the PHY apparatus sends a specific warning data to the MAC device through the second device. The transmission configuration of the MAC device is changed in response to the warning data, so the PHY apparatus and the MAC device work under the same transmission configuration as the external one to avoid transmission error. The PHY apparatus further includes a third device, a fourth device and a fifth device. The third device stores the specific warning data, the fourth device records the current transmission configuration on LAN, and the fifth device handles the general data from LAN and relays the data to the MAC device through the first device and the second device.